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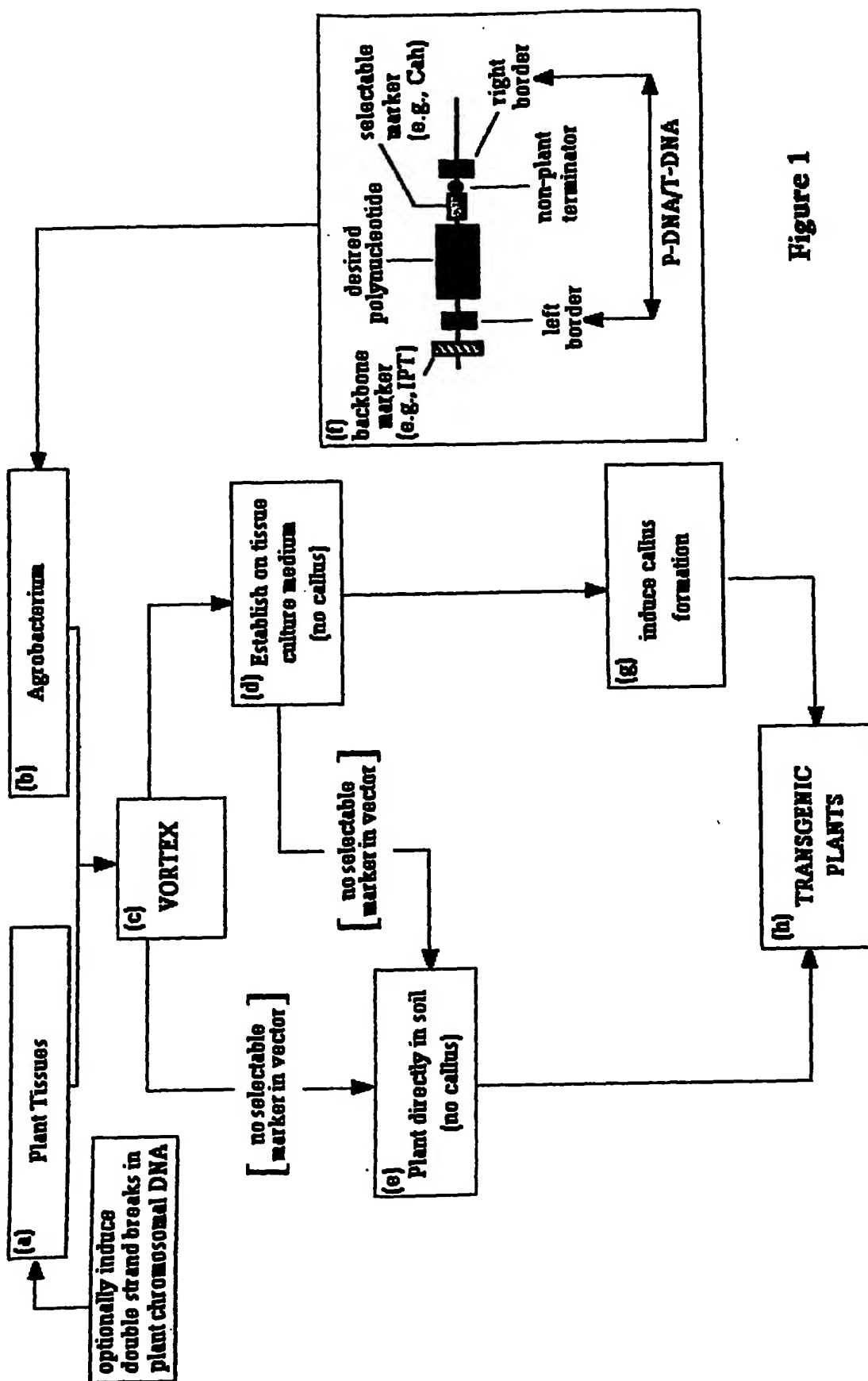


Figure 1

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Figure 2

Alignment of the *CAH* gene from *Myrothecium verrucaria* with a new cyanamide tolerance gene isolated from *Aspergillus* (CAH-H1) and a non-functional yeast *CAH* homolog (CAH-H2)

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CAH      MSSSEVKANGWTAVPVSAKAIVDSLGLKLDVSSYSVEDIAFFPAADKLVAEAQAFVKARLS 60
CAH-H1   MCQNEVEVNGWTSMPADAGAIFDGGPFFINVPEALSIEEIKFPVDDPIVEKTMRYAKAALP 60
CAH-H2   -----MSQYGfVRVPREVEKAIP-----VVNAPRPRAVVPFPNSETARLVREYAAKELT 49
          ..  *:  *:  ..  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

CAH      PETYNHSMRVFYW-----GTVIARRLLPEQAKDLSFSTWALTCLLHD 102
CAH-H1   TETFNHSMRVYYYGMQDCASHGVLINRSQALGMAITKQFPKQASALSPSTWALTCLLHD 120
CAH-H2   APVLNHSRLRVFQY-----SVAIIRDQFP--AWDLQDEVLYVTCLLHD 89
          . .  ***:***:  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

CAH      VGTAEAYFTSTRMSFDIYGGIKAMEVLK-VLGSSTDQAEAVAEAIIRHEDVGVDGNITFL 161
CAH-H1   IGTS DHNLAATRMSFDIYGGIKALEVLK-GFGATSDQAEAVAEAIIRHODLG VHG TITYI 179
CAH-H2   IATTDKNMRATKMSFEYYGGILSRELVFNATGGNQDYADAVTEAIIRHODLTGTGYITTL 149
          :. *:  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

CAH      GQLIQLATLYDNVGAYDGIIDFGSWVDDTTRNSINTAFPRHGWC SWFACTVRKEESNKPW 221
CAH-H1   GQLIQLATIYDNVGAHPYVKDFGELIHD TTRS QVHEAHP PG EWRTFFSGV IQEQA IKPW 239
CAH-H2   GLILQIATTLDNVGSN-----TDLIHIDTVSAINEQFPRLHWLSCFATVVD TENS RKPW 203
          *  *:  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

CAH      CHTTHIPQ-FDKQMEANTLMKPWE 244
CAH-H1   CHTKKMVN-VLRKGSRHDPDQ--- 259
CAH-H2   GHTSSLGDDFSKKVICNTFGYN-- 225
          **  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

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Figure 3

Alignment between a new ubiquitin-like promoter (UbiN) and the corresponding part of the sugarcane Ubiquitin-4 promoter.

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Ubi4      AAGCAAACGGTATAGCAACGGTGTTAACCTGATCTAGTGATCTCTTGCAATCCTTAACGG 60
UbiN      AAGCAAAGGTATGGCAACTGTGTACCGCCCTTCGCTG----CGTG-----TTAACGG 50
          *****  *****  *****  *****  *  *      *      **      *  **      *****

Ubi4      CCACCTACCGCAGGTAGCAAACGGCGTCCCCCTCCTCGATATCTCCGCGGCGACCTCTGG 120
UbiN      CCACCAACCGCAGGTAGCAAACGGCGTGCACCTTCCCGAGATCTCCACAGCGAGGTCTGG 110
          *****  *****  *****  *  ***  *  ***  *****  *  ****  *****

Ubi4      CTTTTTCGCGGAATTGCGCGGTGGGGACGGATTCCACAACCGCGACGCAA-CCGCCTCT 179
UbiN      CTTTTTCGCGCTTCCCG-GAAACCGCGGTGGTTTC----AGCGTGGCGGATTCCCCCTCC 165
          *****      *  *      *  *  ***  ***      *  *  *  *  *  *  *  *  *  *

Ubi4      CGCCGCTGGGCCCCACACCGCTCGGTGCCGTAGCCTCACGGGACTCTTTCTCCCTCCTCC 239
UbiN      CACCACCCAACCGC-CATAAATACCAGCCCCACCTCACT---CTCTTTGCATATCCATC 221
          *  *  *      *  *  *  *      *      ***      *****      *****      *  *  *

Ubi4      CCCGTTATAAATTGGCTTCATCCCCTCCTTGCCTC 274
UbiN      CAAATCCCA----GTCCCCAATC----- 240
          *      *  *      *  *  *  *  *

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Figure 4. GUS-expression in *Agrobacterium*-infected alfalfa seedlings
“- vortex”: subjection by immersing (30 minutes) seedlings into an *Agrobacterium* suspension; “+ vortex” subjection by vortexing (30 minutes) seedlings immersed in an *Agrobacterium* suspension.

